

Docket No. 12810-00067-US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Karl-Heinz Kogel et al.

Application No.: 10/522,106

Confirmation No.: 9243

Filed: January 24, 2005

Art Unit: N/A

For: **METHOD FOR OBTAINING THE
PATHOGENIC RESISTANCE IN PLANTS**

Examiner: Not Yet Assigned

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C.
371 IN THE U. S. DESIGNATED/ELECTED OFFICE (DO/EO/US)**

MS Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This is in response to the Notification of Missing Requirements Under 37 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) dated April 30, 2007 (copy enclosed herewith).

An oath or declaration of the inventors executed in accordance with either 37 CFR § 1.66 or 37 CFR § 1.68 was requested to be furnished. Applicants respectfully submit a newly executed Combined Declaration and Power of Attorney with change of correspondence address believed to be in compliance with either 37 CFR § 1.66 or 37 CFR § 1.68. Applicants additionally request that all pertinent U.S. Patent and Trademark Office records relating to the subject application be changed accordingly. Applicants request that all future correspondence be directed to the new attorneys of record as indicated on the enclosed Declaration.

A replacement Sequence Listing in compliance with 37 CFR §§ 1.822-1.823 was also requested to be submitted. Applicants respectfully submit that a Sequence Listing and associated documents (replacement paper copy, Statement to Support Filing and Submission of Sequence Listing, Computer Readable Format copy on disk, Amendment and Response to Notification to Comply, copy of Notification to Comply) in compliance with 37 CFR §§ 1.821-1.825 was

submitted to the USPTO PCT Legal Office on November 15, 2006 with a Request for Reconsideration. Furthermore, in the Decision regarding the "Request for Reconsideration" dated April 2, 2007, the petition under 37 CFR 1.137(b) was granted. In the Decision, the PCT Legal Examiner acknowledged that "an acceptable CFR was entered into the USPTO database on 12 December 2006, and that the 20 November 2006 submission further included statements that the content of the CFR is identical to the written (on paper or compact disc) sequence listing and includes no new matter. As such, the requirements of 37 CFR § 1.137(b) have now been satisfied."

For convenience, as a courtesy, Applicants enclose herewith a copy of the previous Sequence Listing submission of November 20, 2006, with a copy of the stamped returned postcard and the Decision from the PCT Legal Examiner.

Applicants believe that all requirements have been met and respectfully request that the application be forwarded for examination.

Please charge our Deposit Account No. 03-2775 in the amount of \$130.00 covering the fee set forth in 37 CFR 1.16(f). Additionally, accompanying this response is a petition for a one-month extension of time to and including July 30, 2007 to respond to the Notification of Missing Requirements mailed April 30, 2007 with the required fee authorization. Applicants believe no further fees are due. However, if a fee is due, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 12810-00067-US from which the undersigned is authorized to draw.

Respectfully submitted,

By Roberte Makowski
Roberte M. D. Makowski

Registration No.: 55,421
CONNOLLY BOVE LODGE & HUTZ LLP
1007 North Orange Street; P.O. Box 2207
Wilmington, Delaware 19899
(302) 658-9141
(302) 658-5614 (Fax)
Attorney for Applicants

541710_1

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EM 037607496 US in an envelope addressed to:

MS Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on July 19, 2007
Date



Signature

Dorothy L. Sciarra
Typed or printed name of person signing Certificate

Registration Number, if applicable

Telephone Number

(302) 658-9141

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Response to notification of missing requirements under 35 U.S.C. 372 in the U.S. designated/Elected Office (DO/EO/US) (2 pages)
Notification of missing requirement under 35 U.S.C. 372 in the U.S. designated/Elected Office (DO/EO/US) (9 pages)
Petition for extension of time - 1 month (1 page)
Fee transmittal for FY 2007 (1 page)
Copy of declaration (5 pages)
Decision re: Request for Reconsideration dated 4/2/07 (4 pages)
Copy of previously filed response to notification to comply with requirements for patent applns. containing nucleotide and/or amino acid seq. disclosures and amendment (72 pages) with copy of Sequence Listing (CRF copy - 1 Disk)
Certificate of Express Mailing (1 page)
Authorization to charge \$250.00 to deposit account 03-2775

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

<p>Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</p> <p>FEE TRANSMITTAL For FY 2007</p>		<p>Complete if Known</p>	
		Application Number	10/522,106-Conf. #9243
		Filing Date	January 24, 2005
		First Named Inventor	Karl-Heinz Kogel
		Examiner Name	Not Yet Assigned
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Art Unit	N/A
TOTAL AMOUNT OF PAYMENT		(\$)	250.00
		Attorney Docket No.	
		12810-00067-US	

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____

Deposit Account Deposit Account Number: 03-2775 Deposit Account Name: Connolly Bove Lodge & Hutz LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

<u>Application Type</u>	<u>FILING FEES</u>		<u>SEARCH FEES</u>		<u>EXAMINATION FEES</u>		
	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fee (\$)</u>	<u>Small Entity</u>	<u>Fees Paid (\$)</u>
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	
_____	- 20 = _____	x _____	= _____	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
HP = highest number of total claims paid for, if greater than 20.				_____	_____
<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
_____	- 3 = _____	x _____	= _____	_____	_____

3. APPLICATION SITE SEE

3. APPLICATION SIZE FEE
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fee Paid (\$)**

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)
Other (e.g., late filing surcharge): 1251 Extension for response within first month 120.00
1617 Search fee, examination fee or oath or ... 130.00

4. OTHER FEE(S)	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other (e.g., late filing surcharge): 1251 Extension for response within first month 1617 Search fee, examination fee or oath or ...	120.00 130.00

SUBMITTED BY					
Signature		Registration No. (Attorney/Agent)	55,421	Telephone	(302) 658-9141
Name (Print/Type)	Roberte M. D. Makowski, Ph.D.		Date	July 19, 2007	

553543 1
07/24/2007 MKAYPAGH 00000159 032775 10522106

01 FC:1617 130.00 DA

PCT
Box 500

07-2D-07

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/522,106	Karl-Heinz Kogel	532622010500

INTERNATIONAL APPLICATION NO.

PCT/EP03/07589

I.A. FILING DATE	PRIORITY DATE
07/14/2003	07/22/2002

CONFIRMATION NO. 9243

371 FORMALITIES LETTER



OC000000023595718

Date Mailed: 04/30/2007

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 01/24/2005
- Copy of the International Search Report filed on 01/24/2005
- Copy of IPE Report filed on 01/24/2005
- Preliminary Amendments filed on 01/24/2005
- Biochemical Sequence Diskette filed on 01/24/2005
- Oath or Declaration filed on 01/24/2005
- Biochemical Sequence Listing filed on 01/24/2005
- Request for Immediate Examination filed on 01/24/2005
- U.S. Basic National Fees filed on 01/24/2005
- Assignment filed on 01/24/2005
- Priority Documents filed on 01/24/2005
- Power of Attorney filed on 01/24/2005

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
 - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content

of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov**

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

LAMONT M HUNTER

Telephone: (703) 308-9140 EXT 201

PART 2 - OFFICE COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/522,106	PCT/EP03/07589	532622010500

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/522,106
Source: PCT
Date Processed by STIC: 2-2-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005

TIME: 15:31:41

Input Set : A:\Sequence Listing.txt
 Output Set: N:\CRF4\02022005\J522106.raw

2 <110> APPLICANT: Kogel, Karl-Heinz
 3 Huckelhoven, Ralph
 4 Trujillo, Marco
 6 <120> TITLE OF INVENTION: Method for Obtaining a Pathogen Resistance in Plants
 8 <130> FILE REFERENCE: 532622010500
 --> 10 <140> CURRENT APPLICATION NUMBER: US/10/522,106
 11 <141> CURRENT FILING DATE: 2005-01-24
 13 <160> NUMBER OF SEQ ID NOS: 24
 14 <170> SOFTWARE: PatentIn Ver. 2.1

ERRONEOUS SEQUENCES

45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 112
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Hordeum vulgare
 --> 49 <400> SEQUENCE: 2
 . 50 Phe Lys Gly Ile Met Asn Glu Ile Ala Glu Leu Asp Gln Arg Asn Ile
 . 51 1 5 10 15
 . 52 Ile Glu Met His Asn Tyr Leu Thr Ser Val Tyr Glu Glu Gly Asp Ala
 . 53 20 25 30
 . 54 Arg Ser Ala Leu Ile Thr Met Leu Gln Ala Leu Asn His Ala Lys Asn
 . 55 35 40 45
 --> 56 Gly Val Asp Val Val Ser Xaa Thr Arg Val Arg Thr His Phe Ala Arg
 . 57 50 55 60
 . 58 Pro Asn Phe Lys Arg Val Leu Ser Lys Val Ala Ala Lys His Pro Tyr
 . 59 65 70 75 80
 . 60 Ala Lys Ile Gly Val Phe Tyr Cys Gly Ala Pro Val Leu Ala Gln Glu
 . 61 85 90 95
 . 62 Leu Ser Asn Leu Cys His Glu Phe Asn Gly Lys Cys Thr Thr Lys Phe
 . 63 100 105 110
 2181 <210> SEQ ID NO: 16
 2182 <211> LENGTH: 939
 2183 <212> TYPE: PRT
 2184 <213> ORGANISM: Nicotiana tabacum
 --> 2185 <400> SEQUENCE: 16
 . 2186 Met Gln Asn Ser Glu Asn His His Pro His His Gln His His His Ser
 . 2187 1 5 10 15
 . 2188 Asp Thr Glu Ile Ile Gly Asn Asp Arg Ala Ser Tyr Ser Gly Pro Leu
 . 2189 20 25 30
 . 2190 Ser Gly Pro Leu Asn Lys Arg Gly Gly Lys Lys Ser Ala Arg Phe Asn
 . 2191 35 40 45

P/S EXP AIN
 "Xaa" location Does Not Comply
 Corrected Diskette Needed
 (P5.1,3)

See error explanation
 on page 5.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005

TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
 Output Set: N:\CRF4\02022005\J522106.raw

2192 Ile Pro Glu Ser Thr Asp Ile Gly Thr Ser Val Gly Thr Gly Gly Lys
 2193 50 55 60
 2194 Ser Asn Asp Asp Ala Tyr Val Glu Ile Thr Leu Asp Val Arg Glu Asp
 2195 65 70 75 80
 2196 Ser Val Ala Val His Ser Val Lys Thr Ala Gly Gly Asp Asp Val Glu
 2197 85 90 95
 2198 Asp Pro Glu Leu Ala Leu Ala Lys Gly Leu Glu Lys Lys Ser Thr
 2199 100 105 110
 2200 Leu Gly Ser Ser Leu Val Arg Asn Ala Ser Ser Arg Ile Arg Gln Val
 2201 115 120 125
 2202 Ser Gln Glu Leu Arg Arg Leu Ala Ser Leu Asn Lys Arg Pro Ile Pro
 2203 130 135 140
 2204 Thr Gly Arg Phe Asp Arg Asn Lys Ser Ala Ala Ala His Ala Leu Lys
 2205 145 150 155 160
 2206 Gly Leu Lys Phe Ile Ser Lys Thr Asp Gly Gly Ala Gly Trp Ala Ala
 2207 165 170 175
 2208 Val Glu Lys Arg Phe Asp Glu Ile Thr Ala Ser Thr Thr Gly Leu Leu
 2209 180 185 190
 2210 Pro Arg Ala Lys Phe Gly Glu Cys Ile Gly Met Asn Lys Glu Ser Lys
 2211 195 200 205
 2212 Glu Phe Ala Val Glu Leu Tyr Asp Ala Leu Ala Arg Arg Arg Asn Ile
 2213 210 215 220
 2214 Thr Thr Asp Ser Ile Asn Lys Ala Gln Leu Lys Glu Phe Trp Asp Gln
 2215 225 230 235 240
 2216 Val Ala Asp Gln Ser Phe Asp Ser Arg Leu Gln Thr Phe Phe Asp Met
 2217 245 250 255
 2218 Val Asp Lys Asp Ala Asp Gly Arg Ile Thr Glu Glu Glu Val Arg Glu
 2219 260 265 270
 2220 Ile Ile Gly Leu Ser Ala Ser Ala Asn Arg Leu Ser Thr Ile Gln Lys
 2221 275 280 285
 2222 Gln Ala Asp Glu Tyr Ala Ala Met Ile Met Glu Glu Leu Asp Pro Asn
 2223 290 295 300
 2224 Asn Leu Gly Tyr Ile Met Ile Glu Asn Leu Glu Met Leu Leu Leu Gln
 2225 305 310 315 320
 2226 Ala Pro Asn Gln Ser Val Gln Arg Gly Gly Glu Ser Arg Asn Leu Ser
 2227 325 330 335
 2228 Gln Met Leu Ser Gln Lys Leu Lys His Thr Gln Glu Arg Asn Pro Ile
 2229 340 345 350
 2230 Val Arg Trp Tyr Lys Ser Phe Met Tyr Phe Leu Leu Asp Asn Trp Gln
 2231 355 360 365
 2232 Arg Val Trp Val Leu Leu Leu Trp Ile Gly Ile Met Ala Gly Leu Phe
 2233 370 375 380
 2234 Thr Trp Lys Tyr Ile Gln Tyr Lys Glu Lys Ala Ala Tyr Lys Val Met
 2235 385 390 395 400
 2236 Gly Pro Cys Val Cys Phe Ala Lys Gly Ala Ala Glu Thr Leu Lys Leu
 2237 405 410 415
 2238 Asn Met Ala Ile Ile Leu Phe Pro Val Cys Arg Asn Thr Ile Thr Trp
 2239 420 425 430
 2240 Leu Arg Asn Lys Thr Arg Leu Gly Ala Ala Val Pro Phe Asp Asn

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005
TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

2241	435	440	445
2242	Leu Asn Phe His Lys Val Ile Ala Val Ala Ile Ala Leu Gly Val Gly		
2243	450	455	460
2244	Ile His Gly Leu Ser His Leu Thr Cys Asp Phe Pro Arg Leu Leu Asn		
2245	465	470	475
2246	480	485	490
2247	495	500	505
2248	510	515	520
2249	525	530	535
2250	540	545	550
2251	555	560	565
2252	570	575	580
2253	585	590	595
2254	600	605	610
2255	615	620	625
2256	620	630	635
2257	635	640	645
2258	645	650	655
2259	660	665	670
2260	670	675	680
2261	685	690	695
2262	700	710	715
2263	720	725	730
2264	735	740	745
2265	750	755	760
2266	765	770	775
2267	780	785	790
2268	795	800	805
2269	810	815	820
2270	825	830	

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

*✓
pls explain Xaa location
pls see error explanation on page 5.*

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005

TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

2290 His Lys Gly Val Ile Glu Met His Asn Tyr Cys Thr Ser Val Tyr Glu
2291 835 840 845
2292 Glu Gly Asp Ala Arg Ser Ala Leu Ile Thr Met Leu Gln Ser Leu His
2293 850 855 860
2294 His Ala Lys Asn Gly Val Asp Ile Val Ser Gly Thr Arg Val Lys Ser
2295 865 870 875 880
2296 His Phe Ala Lys Pro Asn Trp Arg Asn Val Tyr Lys Arg Ile Ala Leu
2297 885 890 895
2298 Asn His Pro Glu Ala Lys Val Gly Val Phe Tyr Cys Gly Ala Pro Ala
2299 900 905 910
2300 Leu Thr Lys Glu Leu Arg Gln His Ala Leu Asp Phe Ser His Lys Thr
2301 915 920 925
2302 Ser Thr Lys Phe Asp Phe His Lys Glu Asn Phe
2303 930 935

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005
TIME: 15:31:43

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw,

se of n's or Xaa's (NEW RULES): ERROR EXPLANATION:

se of n's and/or Xaa's have been detected in the Sequence Listing.

se of <220> to <223> is MANDATORY if n's or Xaa's are present.

n <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

eq#:1; Xaa Pos. 55 //
eq#:2; Xaa Pos. 55 //
eq#:15; N Pos. 1952 //
eq#:15; Xaa Pos. 547 //
eq#:16; Xaa Pos. 547 ✓

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/522,106

DATE: 02/02/2005
TIME: 15:31:43

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

:10 M:270 C: Current Application Number differs, Replaced Current Application Number
:15 M:283 W: Missing Blank Line separator, <210> field identifier
:19 M:283 W: Missing Blank Line separator, <220> field identifier
:23 M:283 W: Missing Blank Line separator, <400> field identifier
:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:193
:49 M:283 W: Missing Blank Line separator, <400> field identifier
:56 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
:69 M:283 W: Missing Blank Line separator, <220> field identifier
:73 M:283 W: Missing Blank Line separator, <400> field identifier
:255 M:283 W: Missing Blank Line separator, <400> field identifier
:379 M:283 W: Missing Blank Line separator, <220> field identifier
:383 M:283 W: Missing Blank Line separator, <400> field identifier
:570 M:283 W: Missing Blank Line separator, <400> field identifier
:698 M:283 W: Missing Blank Line separator, <220> field identifier
:702 M:283 W: Missing Blank Line separator, <400> field identifier
:904 M:283 W: Missing Blank Line separator, <400> field identifier
:1032 M:283 W: Missing Blank Line separator, <220> field identifier
:1036 M:283 W: Missing Blank Line separator, <400> field identifier
:1234 M:283 W: Missing Blank Line separator, <400> field identifier
:1364 M:283 W: Missing Blank Line separator, <220> field identifier
:1368 M:283 W: Missing Blank Line separator, <400> field identifier
:1556 M:283 W: Missing Blank Line separator, <400> field identifier
:1680 M:283 W: Missing Blank Line separator, <220> field identifier
:1684 M:283 W: Missing Blank Line separator, <400> field identifier
:1868 M:283 W: Missing Blank Line separator, <400> field identifier
:1990 M:283 W: Missing Blank Line separator, <220> field identifier
:1994 M:283 W: Missing Blank Line separator, <400> field identifier
:2102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:1935
:341 Repeated in SeqNo=15
:2185 M:283 W: Missing Blank Line separator, <400> field identifier
:2254 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
:2309 M:283 W: Missing Blank Line separator, <220> field identifier
:2313 M:283 W: Missing Blank Line separator, <400> field identifier
:2477 M:283 W: Missing Blank Line separator, <400> field identifier
:2589 M:283 W: Missing Blank Line separator, <220> field identifier
:2593 M:283 W: Missing Blank Line separator, <400> field identifier
:2763 M:283 W: Missing Blank Line separator, <400> field identifier
:2879 M:283 W: Missing Blank Line separator, <220> field identifier
:2883 M:283 W: Missing Blank Line separator, <400> field identifier
:3059 M:283 W: Missing Blank Line separator, <400> field identifier
:3179 M:283 W: Missing Blank Line separator, <220> field identifier
:3182 M:283 W: Missing Blank Line separator, <400> field identifier
:3190 M:283 W: Missing Blank Line separator, <220> field identifier
:3193 M:283 W: Missing Blank Line separator, <400> field identifier